ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1074 to 1122

1074
Haddock

Set over 1 Plain Trawl

at 1.10 P.M. in 18 fathoms of water. at 1.30 hove in Trawl. Containing 2 Dozen Shrimp, 1 ~~Small~~ Stingaree. about one foot long. and 2 dog. Small ~~perch~~. Rock fish. Several young Menhaden. 1 perch Several flounders (2 kinds)

Thus 1 1/2 St. Pt. N. & W. 12. W. 4, 3/4

1022

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1074

Date, March 11 – 1882

Locality, Off Martha's Island

Bearings, South point of Nash Island bearing E × N. 1/4

Time of day, 1.10 P.M. ; of tide, Ebb

State of sky, Clear

Temperature of air, 51

" surface of water,

" at depth of fathoms,

" of bottom, 41

Depth, in fathoms, 15 – 12 – 11

Nature of bottom, Black mud

Direction of ~~surface current,~~ Wind N.W.

Force of ~~surface current,~~ Wind 3

Direction of ~~bottom current,~~ Drift S.S.W. 1 mi

Force of bottom current,

Name of vessel, "Fish Hawk"

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant Z. L. Tanner, U.S.N.

Name and position of observer,

1075

REMARKS.

Travel was put over
in 14 feet of water at
9.45 a.m. At 10 A.M.
here in Trans-Continental
Overall Bundle Rock also
some Spring Crawfish.

1075

N.Z. 47995

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1075

Date, Mar 13 1882

Locality, Off Kent Island

Bearings, Sandy Pt. Lt. N.x W. 1/4 W

3.1/2

Time of day, 9.45 A.M. of tide, flood

State of sky, Partly Cloudy

Temperature of air, 45

" surface of water, 43

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 14 — 11

Nature of bottom, mud

Direction of ~~surface current~~, Wind N.N.W.

Force of ~~surface current~~, Wind 5

Direction of ~~bottom current~~, Drift N.N.W.

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant Z. L. Tanner, U.S.N.

Name and position of observer,

REMARKS.

Put Oyster Dredge over at 2.20 P.M. in 6 fms of water – at 2.27 hove in Dredge – Continuing

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation,

Date, Mar 11/1882

Locality,

Bearings,

Time of day, 2.20 P.M. of tide,

State of sky, Partly Cloudy

Temperature of air, 28

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 6 - 7

Nature of bottom, Mud

Direction of ~~surface current~~, Wind

Force of ~~surface current~~, Wind

Direction of ~~bottom current~~, Drift N.N.

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant B. L. Tanner, U.S.N.

Name and position of observer,

1076

REMARKS.

Beam Trawl was put over at 10.15 in 15 fathoms & water. Hove up Trawl at 10.36 am it containing several small Dabs, flounders and 2 small Cuttlefish

10 a.
(U.S. 47995.)

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1076

Date, Mar. 13. 1882.

Locality, Off Key West

Bearings, [illegible]

3,

Time of day, 10.15 A.M.; of tide, Flood

State of sky, Partly Cloudy

Temperature of air, 45

" surface of water, 43

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 15

Nature of bottom, Mud.

Direction of ~~surface current~~, Variable N.E. & W.

Force of ~~surface current~~, Variable 5

Direction of ~~bottom current~~, [illegible]

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lieut.

W. L. Tanner, U.S.N.

Name and position of observer,

1077

REMARKS.

[illegible] 18[illegible]
at 10.55 am in 4 fathoms
[illegible] at 11.15 leave [illegible]
Vessel with containing
Seven Cannon Balls, [illegible]
4 some Small Charge [illegible]

1077

TEMPERATURE RECORD.

Instrument used, Beam Trawl.

Current number of observation, 1077

Date, March 15, 1882

Locality, Off North Island

Bearings, Sandy Pt. S.W. W.N.W. W.

L. H.

Time of day, 10.55 am of tide, Flood

State of sky, Partly Cloudy

Temperature of air, 49

" surface of water, 48

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 11 – 12.

Nature of bottom, Blue mud.

Direction of ~~surface current~~, Wind N.W.W.

Force of ~~surface current~~, Wind 5

Direction of ~~bottom current~~, Drift

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant

Z. L. Tanner, U.S.N.

Name and position of observer,

1078

REMARKS.

Water Specimens.

Plankton net.

Depth of specimen	Sp. gravity	Inf. [illegible]
Surface	1.0234	67
5 fms	1.0235	64
10 fms	1.0240	60

9 [illegible] abund.
9 Dictyocha Cassiana [illegible]
9 [illegible]
9 [illegible]
9 [illegible]
9 [illegible] conifera
9 Pyrocystis Hyalina
Cyrtoia [illegible]
Thalassiosira [illegible]
Lucoidium [illegible]
Eufaurus
[illegible] 2
9 Ceratium asymmetricum
[illegible] 9 Alexandrium [illegible]

[illegible]
Sagitta marmus 4
Oikopleura Cyrtoloma 6
[illegible]
Hippoglossoides platessoides 1
[illegible]
Rana radiata

[illegible] Pingelli [illegible]
[All bearings magnetic?]

TEMPERATURE RECORD.

Instrument used, Frack -

Current number of observation, 1078

Date, Aug 2d 1894

Locality, Cape Cod

Bearings, Nauset Beacon
N W by N dist 10 m

Time of day, 7-30 A.M. of tide,

State of sky, C. C.

Temperature of air, 72° Sig-Service Ther.

" surface of water, 63 h.g. #47996

" at depth of 5 fathoms, 56 [illegible]

" of bottom, 37 - h.g. #47995

Depth, in fathoms, 5 3 = 5.5

Nature of bottom, gr. mud [illegible]

Direction of ~~surface current~~ Wind, [illegible]

Force of ~~surface current~~ drift, S by W 1/2 m.

Direction of bottom current.

Force of bottom current,

Name of vessel, [illegible]

To what service attached,

Name and rank of commanding officer,

Name and position of observer,
[illegible]
[illegible]

1079

REMARKS.

[illegible] Comanchian
[illegible] 119 285 [illegible]
[illegible]

Hippoglossides platessoides
[illegible] radiata +
[illegible] Chus × Tenuis

[illegible]
[illegible] dissimilis [illegible]
Cyprimeteleandria dual
Mucina zatulosa
[illegible]
Zaqacara arctica +
Glycimeris deligna
[illegible]
[illegible] acuticla
Astarte lens Mollis
Eggs of a gastropod
Hypodephalus
[illegible] ~~[illegible]~~ callosa

1079

Instruments Thermometer

TEMPERATURE RECORD.

Instrument used. Th. W.

Current number of observation, 1079

Date, August 2nd 1882

Locality. Cape Cod

Bearings. Monument Beacon N.W. by W. & W.N.W. & E.

Time of day. 8 A.M. ~~P.M.~~; of tide.

State of sky, Fair

Temperature of air, 69°

" surface of water, 63.5°

" at depth of 5 fathoms, 56.5 at 10 fathoms

" of bottom. 57

Depth, in fathoms, 59 = 61.5

Nature of bottom, Fine sand

Direction of ~~surface current.~~ Wind N.E. Force 3

~~Force of surface current.~~ Drift E.S.E. 1 mile

Direction of bottom current.

Force of bottom current.

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Com.

Name and rank of commanding officer,

Lieut. Jr. Turner U.S.N.

Name and position of observer,

J. Fritz Fish

Assistant

REMARKS.

[illegible]

[illegible]

[illegible]

Coast Survey
Steamer Matchless
[illegible] 1878

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 16

Date. [illegible]

Locality. [illegible]

Bearings. Nauset Beacons
NW by W 1/2 W [illegible]

Time of day, 9-40 AM of tide.

State of sky, PC

Temperature of air. 69

" surface of water, 61.5

" at depth of 5 fathoms, 56 at 16 fms 45

" of bottom, 37

Depth, in fathoms, 53 = 55 fms

Nature of bottom. [illegible]

Direction of ~~surface current~~, NSW Force 2

Force of ~~surface current~~, Drift NNW 1 mile

Direction of bottom current.

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S Fish Commission

Name and rank of commanding officer.
Lieut [illegible] Tanner USN

Name and position of observer.
[illegible] Fish
Wheaton USN

REMARKS.

[illegible] 61

[illegible] 53

[illegible]

S

[illegible]

[illegible] 3

[illegible] 4 +

[illegible]

[illegible] murinus

Hippoglossoides platessoides

Liparis angularis

Ammodytes americanus

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1081

Date,

Locality.

Bearings.

3/4 mile

Time of day, ; of tide,

State of sky,

Temperature of air, 69

" surface of water, 59

" at depth of 5 fathoms, — at 10 fms 40

" of bottom, 39

Depth, in fathoms, 32 = 33.5

Nature of bottom, Grey

Direction of ~~surface current~~, Wind

Force of ~~surface current~~,

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commn.

Name and rank of commanding officer, Lieut. J. K. Lamm U.S.N.

Name and position of observer, J. B. Bish Midshipman

1082

REMARKS.

[illegible]	[illegible]	[illegible]
[illegible]	1,0230	62
[illegible]	[illegible]	57
[illegible]	[illegible]	[illegible]

[illegible]
[illegible]
[illegible]
Sebastio [illegible]

Probably same as 1878

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 1088

Date, Aug. 2nd 1882

Locality, Cape Cod

Bearings, Cape Cod Hill Hom. N.N.E 3/4 E dist 11½ miles

Time of day, 11-45 ; of tide,

State of sky, [illegible]

Temperature of air, 76

" surface of water, 59

" at depth of 5 fathoms, [illegible]

" of bottom, 40

Depth, in fathoms, 27

Nature of bottom, [illegible]

Direction ~~of surface current~~, wind [illegible] force 1

Force ~~of surface current~~, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, [illegible]

To what service attached, [illegible]

Name and rank of commanding officer, [illegible]

Name and position of observer, [illegible]

1053

REMARKS.

[illegible] 1230 66

[illegible]

[illegible]

[illegible]

Instrument used [illegible]

TEMPERATURE RECORD.

Instrument used, Fowler

Current number of observation, 1663

Date, Aug. 2 [illegible]

Locality, [illegible]

Bearings, [illegible]

Time of day, 12-45 PM; of tide,

State of sky, [illegible]

Temperature of air, 77

" surface of water, 64

" at depth of 5 fathoms, 59 at 10 fm 42

" of bottom, 38

Depth, in fathoms, 30 = 23

Nature of bottom, [illegible]

Direction of ~~surface current~~,

Force of ~~surface~~ current, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, [illegible]

To what service attached, [illegible]

Name and rank of commanding officer, [illegible]

Name and position of observer, [illegible]

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, : of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of ~~surface current~~,

~~Force of surface current~~,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

radicles 4
Hippoglossides platessoides
Macrouridae Macrourus fasciatus 4
Macrourus
Lycodes vahlii

Lophopetta granulata
Limanda ferruginea

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1087

Date,

Locality,

Bearings,

Time of day, 6.15 ; of tide,

State of sky,

Temperature of air, 67

" surface of water,

" at depth of 5 fathoms, 61 at 10 fms = 3

" of bottom, 39

Depth, in fathoms, 33

Nature of bottom,

Direction of ~~surface current~~,

Force of ~~surface current~~,

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commn.

Name and rank of commanding officer,

Lieut. R. E. Lauer USN

Name and position of observer,

REMARKS.

Raia radiata
Limanda ferruginea

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1026

Date,

Locality.

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 64

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current, 3

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, US Fish Comm

Name and rank of commanding officer.

R. L. Faunce USN

Name and position of observer,

1057

REMARKS.

1,02 32-63

Diffractionides Notostriata
Gy the Capitulum symphoria
Rana Esculenta
Cassidophorida monostiongia

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, 830 ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of ~~surface current~~,

~~Force of surface current~~,

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, US Fish Comm

Name and rank of commanding officer,

Lt L L Lanier USN

Name and position of observer,

REMARKS.

Cavi [illegible] uncinatus many
Brotmeus [illegible]
[illegible] Brotmeus
[illegible] Platyrnichus
[illegible]

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 10

Date,

Locality.

Bearings.

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 6[illegible]

" at depth of 5 fathoms, 59½ at 10 fms

" of bottom, 38

Depth, in fathoms, 80 = 90

Nature of bottom, [illegible] sand

Direction of ~~surface current~~, [illegible]

~~Force of surface current~~, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF Fish Comm

Name and rank of commanding officer, H. L. L. Tanner, USN

Name and position of observer, [illegible]

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality.

Bearings.

Time of day, ; of tide.

State of sky,

Temperature of air, 78

" surface of water, 63

" at depth of fathoms,

" of bottom, 38,5

Depth, in fathoms, 100-110

Nature of bottom,

Direction of surface current,

Force of surface current.

Direction of bottom current,

Force of bottom current,

Name of vessel. Hawk

To what service attached, Hawk Comm

Name and rank of commanding officer.

Name and position of observer.

REMARKS.

Chiros
Myxine glutinosa
Rhinobatis & Raja cimbrius
Phycis Chuss
Raia Eglanteria

[illegible] modestulalis, [illegible]
[illegible] Tellina Macrorhinchus [illegible]
[illegible] Mya truncata, Tellina pygmaea
[illegible] Strigilatum, [illegible]
[illegible] spp. [illegible]
[illegible]

Cycadea Tenuilli

TEMPERATURE RECORD.

Instrument used,

Current number of observation, [illegible]

Date, [illegible]

Locality, [illegible]

Bearings, [illegible]

Time of day, [illegible]; of tide.

State of sky, [illegible]

Temperature of air, [illegible]

" surface of water, 62

" at depth of 5 fathoms, 56 [illegible] 52

" of bottom, 3[illegible]

Depth, in fathoms, [illegible]

Nature of bottom, [illegible]

Direction of surface current, [illegible]

Force of surface current.

Direction of bottom current.

Force of bottom current.

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of ~~commanding officer~~ Lt. L. L. Lanier USN

Name and position of observer, [illegible]

1091

REMARKS.

Depth	Water Specimens Sp. grav.	Temp.	Reduced to 60°
Surface			
5 fms			
10 "			

Anthys Mingus D & C

Frigid Cheek – abundant

[illegible]

Thermometer & Lower bottle
Form as used in Lines & Co

TEMPERATURE RECORD.

Instrument used, Frame

Current number of observation, 1091

Date, Aug 11 1882

Locality.

Bearings, Lat 40°-03' N
Long 69°-44' W

Time of day, 5.30 ; of tide.

State of sky, b. c.

Temperature of air, 77

" surface of water, 75

" at depth of 5 fathoms, at 10 fms 62

" of bottom, 46

Depth, in fathoms, 62 = 65 fms

Nature of bottom. Grey Sand & broken Shells

Direction of ~~surface current~~ Wind Force

~~Force of surface current~~ Drift Dist

~~Direction of bottom current~~ Temperature at Force

~~Force of bottom current~~.

Name of vessel, "Fish Hawk"

To what service attached, U.S. Fish Commission

Name and rank of commanding officer,

Name and position of observer,

1092

REMARKS.

[illegible]

[illegible]

[illegible]

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 1092

Date, Aug

Locality, [illegible]

Bearings. Lat 39°-58' N
Long. 69°-42 W

Time of day, 6.54; of tide,

State of sky, [illegible]

Temperature of air, 79

" surface of water, 75

" at depth of fathoms,

" of bottom, [illegible]

Depth, in fathoms, 194 = 202

Nature of bottom, [illegible]

Direction of ~~surface current~~, [illegible] 3

~~Force of surface~~ current, [illegible] 3/4 [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, [illegible] Fish Commn

Name and rank ~~of commanding officer~~ Lt. L. F. Lawrence USN

Name and position of observer,

[illegible]

1093

REMARKS.

[illegible] 72

[illegible] 10.37 72

[illegible] 1.203 [illegible]

[illegible] 9.10 [illegible] 9.26

[illegible] 10.20

[illegible]

[illegible] finalis

[illegible] tenuis

[illegible] 2)

[illegible]

Centrosoglossus ~~[illegible]~~ Fabricii

TEMPERATURE RECORD.

Instrument used, Raw

Current number of observation, 1073

Date, Aug

Locality, [illegible]

Bearings, Lat 39°-56-00 N
Long 69°-45-00 W

Time of day, [illegible] ; of tide,

State of sky, [illegible]

Temperature of air, 22

" surface of water, 75

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 336-349

Nature of bottom, Sand + [illegible]

Direction of ~~surface current~~, [illegible]

~~Force of surface current~~, 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S Fish Comm

Name and rank of commanding officer, [illegible]

Name and position of observer,

1094

REMARKS.

Dec	1232	77
5	1235	76
10	10235	76

[illegible]

up 1332

[illegible]

125 = 133 [illegible] sand

Scolopacus [illegible], Pluvialis [illegible]

[illegible]

Charadrius

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 109+

Date, Aug [illegible] 1882

Locality, [illegible]

Bearings, Lat 39°-57'N
Long 69°-47'W

Time of day, [illegible] ; of tide,

State of sky, [illegible]

Temperature of air, 84

" surface of water, 76

" at depth of fathoms,

" of bottom, 46

Depth, in fathoms, 289-301

Nature of bottom, blue mud

Direction of surface current, [illegible]

Force of surface current, [illegible]

Direction of bottom current, [illegible]

Force of bottom current, [illegible]

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of commanding officer, [illegible] Lamm USN

Name and position of observer,

1095

REMARKS.

Synaphobranchus pinnicinctus

[illegible] Norm

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 1095

Date, Aug 11 92

Locality,

Bearings, Lat 39°-55'-28 N [illegible]
Long 69-47-00 W

Time of day, [illegible] ; of tide,

State of sky, [illegible]

Temperature of air, 82

" surface of water, 72

" at depth of 5 fathoms, [illegible] at [illegible] 72

" of bottom, 46

Depth, in fathoms, 309 = 321

Nature of bottom, [illegible]

Direction of ~~surface~~ current, [illegible]

Force of ~~surface~~ current, N N W 1/2 W 3/4 mile

Direction of ~~bottom~~ current, [illegible]

Force of ~~bottom~~ current, [illegible]

Name of vessel, Yacht Hawk

To what service attached, [illegible]

Name and rank of commanding officer, Lt. L. L. Tanner USN

Name and position of observer,

Temp at 3[illegible] [illegible] Taken [illegible]
[illegible]

1096

REMARKS.

[illegible]

[illegible]

1.0.3.[illegible]

[illegible] 1.95 [illegible]

[illegible] 3.95

[illegible]

Collinsonia [illegible]

[illegible]

[illegible] fimbriatus

Illustrius bicuspidatus [illegible]

[illegible]

[illegible] Rhynchospora

Aranella [illegible]

Carex [illegible]

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 195

Date, [illegible]

Locality, [illegible]

Bearings, Lat. 39°-53' N
Long 69°-47' W

Time of day, [illegible]; of tide.

State of sky, [illegible]

Temperature of air, 78

" surface of water, [illegible]

" at depth of 5 fathoms, 75 [illegible] 65

" of bottom, 40

Depth, in fathoms, 365 = 317

Nature of bottom, [illegible]

Direction of ~~surface current~~, Wind [illegible] 3

Force of surface current, North [illegible]

Direction of bottom current.

Force of bottom current,

Name of vessel, Yorktown

To what service attached, Norfolk Circuit

Name and rank of commanding officer,

Lieutenant L. S. [illegible]

Name and position of observer,

[illegible]

1097

REMARKS.

11234 74

[illegible] 72

Trawl over 320 fathoms at 3.32
trawl off 4.15
At 4.05 sounded on 81 = 85

[illegible] carminatus
[illegible]
[illegible] shrimps

[illegible]
Ulerlucus [illegible]
Edytrch [illegible] many
Cellera [illegible]
[illegible]
[illegible]
[illegible] shell

Halicentrodia centrosa
Paradiopya [illegible]

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 107

Date, [illegible]

Locality, [illegible]

Bearings, Lat 39°-54' N
Long 69-44 W

Time of day, 3 10 ; of tide,

State of sky, [illegible]

Temperature of air, 76

" surface of water, 75½

" at depth of fathoms,

" of bottom, [illegible]

Depth, in fathoms, 152 = 158

Nature of bottom, [illegible]

Direction of surface current, [illegible] 3

Force of surface current, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer, Lt. L. L. Lemus USN

Name and position of observer, [illegible]

1098

REMARKS.

[illegible] 10237 [illegible]

[illegible] 10238 73½

[illegible] 5[illegible]

Rawl 5 [illegible] 3

[illegible] 76-79

Pomacanthus [illegible]

P. [illegible]

[illegible]

Raia [illegible]

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 39[illegible]

Date, [illegible]

Locality. [illegible] Martha's Vineyard

Bearings. Lat 39°-53' N
Long 69°-43 W

Time of day, 4[illegible] ; of tide.

State of sky, [illegible]

Temperature of air, 7[illegible]

" surface of water, [illegible]

" at depth of [illegible] fathoms, 72 [illegible] 60

" of bottom, 43 [illegible]

Depth, in fathoms. 15[illegible] / 15[illegible]

Nature of bottom, [illegible]

Direction of ~~surface current~~. [illegible]

Force of ~~surface current~~. [illegible]

Direction of bottom current.

Force of bottom current.

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer. [illegible]

Name and position of observer,

1099

REMARKS.

4 74

5

Lenotinus argyrofa
Phoxopteta tenuiata
Micronetus carolinus

TEMPERATURE RECORD.

Instrument used, Brass

Current number of observation, [illegible]

Date, [illegible]

Locality, Vineyard Sound

Bearings, [illegible]

Time of day, [illegible] ; of tide, Half flood [illegible]

State of sky, [illegible]

Temperature of air, 76

" surface of water, 72

" at depth of fathoms,

" of bottom, 71 1/2

Depth, in fathoms, 6

Nature of bottom, [illegible]

Direction of ~~surface current~~, Wind [illegible]

Force of ~~surface current~~, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Pink Hawk

To what service attached, [illegible]

Name and rank of commanding officer, Lt. L. L. Farmer USN

Name and position of observer, [illegible]

1100

REMARKS.

Stenotomus argyrops
Prionotus evolans
Menticirrhus saxatilis atlanticus 2 ind.

TEMPERATURE RECORD.

Instrument used,

Current number of observation. 1152

Date,

Locality.

Bearings,

Northerne 1 1/4 miles

Time of day, 1147 ; of tide,

State of sky, Mc

Temperature of air, 77

" surface of water, 72

" at depth of fathoms,

" of bottom, 71 1/2

Depth, in fathoms, 4 3/4

Nature of bottom,

Direction of ~~surface current~~,

Force of ~~surface current~~,

Direction of bottom current,

Force of bottom current,

Name of vessel, Hist Tacoma

To what service attached, N Atlantic Comm

Name and rank of commanding officer, Lt. L. L. Farmer USN

Name and position of observer, [illegible] Midn USN

1101

REMARKS.

TEMPERATURE RECORD.

Instrument used, Trow

Current number of observation,

Date, [illegible]

Locality, [illegible]

Bearings, [illegible]

Time of day, [illegible]; of tide, [illegible]

State of sky, [illegible]

Temperature of air, 78

" surface of water, 72

" at depth of fathoms,

" of bottom, 71

Depth, in fathoms, 5

Nature of bottom, shells

Direction of ~~surface~~ current, [illegible]

Force of ~~surface~~ current, [illegible] 1/2 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm.

Name and rank of commanding officer,

G. L. L. Tanner USN

Name and position of observer,

[illegible] Lish
Midn USN

1102

REMARKS.

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, No 2

Date, [illegible]

Locality, [illegible]

Bearings, East [illegible]

[illegible] 3/4

Time of day, 1110 ; of tide, Slack (equinox)

State of sky, [illegible]

Temperature of air, 73

" surface of water, [illegible]

" at depth of fathoms,

" of bottom, [illegible]

Depth, in fathoms, 5

Nature of bottom, [illegible]

Direction of surface current, [illegible]

Force of surface current, E & S 1/2 mi

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of commanding officer, Lt. L. F. Fauna USN

Name and position of observer, J. McLain Mate USF

1103

REMARKS.

[illegible] 1,022 & 70

[illegible]

Corydalis sempervirens

Fothergilla Mascula

Pleurotomus [illegible] for many

TEMPERATURE RECORD.

Instrument used, Trowt

Current number of observation, 1103

Date, Aug 18th 1882

Locality, Vineyard Sound

Bearings, East Chop Light Ho.
N. W. by W 2 3/4 miles

Time of day, 1.42 ; of tide, Slack

State of sky, O. C.

Temperature of air, 70

" surface of water, 70

" at depth of fathoms,

" of bottom, 69

Depth, in fathoms, 5

Nature of bottom, Coarse Sand

Direction of ~~surface current~~ wind, N. E

Force of surface current, Force 2

Direction of ~~bottom current~~ tide, E by S

Force of bottom current, 1/4 mi

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm.

Name and rank of commanding officer,
Lt. L. L. Jamison U.S.N.

Name and position of observer,
[illegible] Wm USN

1104

REMARKS.

[illegible] 1.0225 7.
[illegible] 1.0225 76
Crionolus carolinus fus!
Dicamptorus [illegible]
Crionolus [illegible] carolinus R

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1104

Date, [illegible]

Locality, [illegible]

Bearings, [illegible]

WNW 1/2 W 4 miles

Time of day, 2 1/2 ; of tide, [illegible]

State of sky, [illegible]

Temperature of air, 79

" surface of water, 70

" at depth of fathoms,

" of bottom, 69

Depth, in fathoms, 8 1/2

Nature of bottom, shells

Direction of ~~surface current~~, [illegible]

~~Force of surface current~~, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, [illegible]

Name and rank of commanding officer, [illegible] Lamer USN

Name and position of observer, [illegible] USN

110 S—

REMARKS.

[illegible] 1,0228 | 70

[illegible] 1,0228 | [illegible]

1,0228 | 70

Ichthofsella maculata 2 (1 large

Neuatorus argyrofus (short fin

TEMPERATURE RECORD.

Instrument used, Brauer

Current number of observation, 1103

Date, Aug 17 1892

Locality, Vineyard Sound

Bearings, Cape Poge Lt. Ho

S x W dist. [illegible] mile

Time of day, 3.00 ; of tide, [illegible]

State of sky, [illegible]

Temperature of air, [illegible]

" surface of water, 72

" at depth of fathoms,

" of bottom, 71

Depth, in fathoms, 10

Nature of bottom, Clean sand

Direction of ~~surface current~~ wind NE 3

Force of ~~surface current~~ [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Com

Name and rank of commanding officer

Lt L. L. Farmer USN

Name and position of observer,

[illegible]
Midn USN

1106

REMARKS.

11227 72

Tautophlœa adsperzum /
Neuhlenia argyrophæa ad[illegible]

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 1106

Date, Aug 18 92

Locality, Vineyard Sound

Bearings, [illegible]

3 x N 1/2 W 5 1/2

Time of day, 3.35 ; of tide, [illegible]

State of sky, [illegible]

Temperature of air, [illegible]

" surface of water, 72 1/2

" at depth of fathoms,

" of bottom, 72

Depth, in fathoms, 5

Nature of bottom, [illegible]

Direction of surface current, [illegible] 3

Force of surface current, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lt. [illegible] USN

Name and position of observer, [illegible] USN

1107

REMARKS.

	Specific Gravity	
Herring	1.0244	67
5 fms	44	67
10 "	43	69

Trawl [illegible] 6.42 [illegible]
heavy in 6.46 wf 6.54
220 fms out
[illegible]

Set trawl lines

TEMPERATURE RECORD.

Instrument used, Fowl (case of mighy)

Current number of observation, 1107

Date, Aug 22 1882

Locality, East Nantucket Lightvessel

Bearings, Lat 40°-02' N
Long 70°-35' W

Time of day, [illegible]; of tide,

State of sky, Fa

Temperature of air, 69½

" surface of water, 71

" at depth of 5 fathoms, 71½ at 4 fms 66

" of bottom, 48

Depth, in fathoms, 111=116

Nature of bottom, gray mud

Direction of ~~surface current~~ Wind, WSW Force 2

~~Force of surface current~~ Sea, W 1'

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of commanding officer, Lt. T. L. Turner USN

Name and position of observer, E. P. Bliss

1108

REMARKS.

Specific gravities

Surface	1.0243	67
5 fms	42	67
10 "	42	67

Grand Cay 6.55 down 7.07

Exuma 7.37 ~~of~~ 7.50 30 fms out

Glycistemis (18) Rain crinacia (1)

Paradicthys oblongus (6)

Ichthyocephalus cymbocerus (5)

Myxine glutinosa (1)

Alphoristhys neglectus (1)

Ophichthys (1 sp)

Hypharinedonus chelystemus

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 1108

Date, Aug 22 [illegible]

Locality. [illegible]

Bearings. Lat. 40°-02' N
Long 70°-37'-30" W

Time of day, 6.55 ; of tide.

State of sky, [illegible]

Temperature of air, 67½

" surface of water, 71

" at depth of fathoms,

" of bottom, 48

Depth, in fathoms, 97=101

Nature of bottom. [illegible]

Direction of ~~surface current~~. Mud [illegible]

~~Force of surface current~~, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of commanding officer, Lt L. L. Jones USN

Name and position of observer, [illegible] Shah
Mate USN

1169

REMARKS.

Specimen Examined

Surface	1.0243	66
3 feet	43	66
4 "	44	64

Found over 800 down [illegible]

[illegible] in egg of [illegible] [illegible] of [illegible]

Scorpaena (3) Phycis chuss and

Phycis [illegible] [illegible] Phycis chuss

[illegible] [illegible] [illegible] Phycis chuss

[illegible] [illegible] yolk of egg [illegible]

TEMPERATURE RECORD.

Instrument used, Fowler

Current number of observation, 1109

Date, [illegible]

Locality, [illegible]

Bearings. Lat 40°-03 N
Long 70°-38 W

Time of day, 7.55 ; of tide,

State of sky, [illegible]

Temperature of air, 70 1/2

" surface of water, 71

" at depth of fathoms,

" of bottom, 49

Depth, in fathoms, 85 = 89

Nature of bottom, [illegible]

Direction of ~~surface current~~, [illegible]

Force of ~~surface~~ current, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, [illegible]

To what service attached, [illegible]

Name and rank of commanding officer, [illegible]

Name and position of observer, [illegible]

1110

REMARKS.

Observe Monitors

Observed 1.02 35 72

5 Pms 35 72

" 37 71

Transit 7.25 down 7.35

Reading in 11.05 of 10.05

Atherochlya 327 Pms out

Lymnaea [illegible]

Corbicula d'ackfelbra Rana esculenta

Cyclostomus elegans

Mycetes Musculus

Limnophthera [illegible]

TEMPERATURE RECORD.

Instrument used, Trowel

Current number of observation, 1110

Date, Aug 23 [illegible]

Locality. [illegible]

Bearings, Lat 40°-02' N
Long 70°-35' W

Time of day, 9.16 ; of tide,

State of sky, Vc

Temperature of air, 75

" surface of water, 72

" at depth of fathoms,

" of bottom, 47

Depth, in fathoms, 96 = 100

Nature of bottom. [illegible]

Direction of ~~surface current~~, Wind North [illegible] 2

~~Force of surface current~~, Drift NxW/hW 1'

Direction of bottom current.

Force of bottom current.

Name of vessel, [illegible]

To what service attached, [illegible]

Name and rank of commanding officer. [illegible]

Name and position of observer, [illegible]

1111

REMARKS.

Weight Specific

Urine after 1.0239 71

3 hrs 40 70

10 " 40 72

Urinal 0.22 10.50 [illegible] 1057

Leaving in 1136 of 1146 [illegible]

Tonsilitis [illegible]

[illegible]

[illegible]

Molucine [illegible]

Macrocyst [illegible]

[illegible]

[illegible]

[illegible]

TEMPERATURE RECORD.

Instrument used, Ref. Sea Trawl

Current number of observation. 1111

Date. Aug 22 / 92

Locality. Off Martha's Vineyard

Bearings. Lat. 40°-01'-33" N abt
Long 70°-35 W

Time of day. 10.45 ; of tide.

State of sky, Vc

Temperature of air. 76

" surface of water, 72 N42 #46402

" at depth of 5 fathoms, 71

" of bottom, 47

Depth, in fathoms, 117 = 12.4

Nature of bottom, fine sand

Direction of ~~surface current~~. NE force 2

~~Force of surface current~~.

Direction of bottom current,

Force of bottom current.

Name of vessel, Fish Hawk

To what service attached, US Fish Comm

Name and rank of commanding officer.
Lt. L. L. Tanner USN

Name and position of observer,
[illegible]
Wildu USN

1112

REMARKS.

Specific Gravity

Surface 15240 69

41 70

40 69

Total 12,55 Down 1,05

Leaving 11 of 1,05

431 fms out

Pollinia piscatorius, Sterna marina 11

Sterna marina, Stomach of Pollinia

Gadus aeglefinus 2 Pollinia dito

Gadus merlangus, Merganser

Raja radiata, Stenodytes 11

Lyris Cheilonii 11 Phialleys 11

Glycichaeta cyanolepsis 11

Pleuronectes Microcephalus (ru)

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation. 1112

Date. [illegible]

Locality. [illegible]

Bearings, Lat 39°-56' N
Long 70°-35' W

Time of day, 1243 ; of tide,

State of sky, [illegible]

Temperature of air, 72

" surface of water, 72

" at depth of 5 fathoms, 72 at [illegible]

" of bottom, 43

Depth, in fathoms, 235 = 245

Nature of bottom, [illegible]

Direction of ~~surface current~~, NE time 1

Force of surface current, NW x N 1'

~~Direction of bottom current~~, at 20 fms 44

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of commanding officer, Lt. Z. L. Tanner USN

Name and position of observer, J. T. Bigelow
Midshipman

1113

REMARKS.

Alcyon [illegible]

Surface 10240 65

3 fms 40 70

10 " 41 70

Tow[illegible] min 1.54 above 2.03

Average low 2.25 up 2.40

375 fms [illegible]

Sorpaena (V) Sebastes ad. Myxis chuss abdl

Raja Macrurus Bairdii abdl Sebastes n.s. (V)

Macrurus communis abdl

Alectucius Villosus Lebastes marinus

Halitrema antiquorum

Nematonurus pinnatus

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl

Current number of observation, 1113

Date, Aug 22 1884

Locality, Off Mouth Chesapeake

Bearings, Lat 39°57' N
Long 70°-37' W

Time of day, 1450 ; of tide,

State of sky, VC

Temperature of air, 75

" surface of water, 72

" at depth of 5 fathoms, 71½

" of bottom, 42

Depth, in fathoms, 184 = 192

Nature of bottom, Green mud

Direction of ~~surface current~~, NE

Force of ~~surface current~~, Light

Direction of ~~bottom current~~, [illegible]

Force of ~~bottom current~~, " 30 " 46

Name of vessel, Fish Hawk

To what service attached, USF. Com

Name and rank of commanding officer, Lt. T. L. Tanner USN

Name and position of observer, [illegible]
Madison Wis

1114

REMARKS.

[illegible] 248 down 7.55
heaving in 3/8 of 3.25
30 [illegible]

Mysia plutiana ?) Capelus ?
Macrura communis [illegible]
" [illegible]
Cubastis maximus ?)

TEMPERATURE RECORD.

Instrument used, [illegible]

Current number of observation, 1114

Date. [illegible]

Locality. [illegible]

Bearings, Lat 39°58' N
Long 70°-38' W

Time of day, [illegible] : of tide.

State of sky, [illegible]

Temperature of air, 72

" surface of water, 72

" at depth of 5 fathoms, [illegible] 65

" of bottom, 43

Depth, in fathoms, 164 = 171

Nature of bottom, [illegible]

Direction of ~~surface current~~ wind, [illegible]

Force of surface current. N x W 1'

Direction of bottom current. [illegible] 50 from 43°

Force of bottom current, " 50 " 49*

Name of vessel, Fish Hawk

To what service attached, U S Fish Comm

Name and rank of commanding officer,
Lt. L. F. Tanner USN

Name and position of observer,
[illegible]

o Bottom thermometer
[illegible]

1115

REMARKS.

Dredge over 3.35 down 3.44
heaving in 4.11 up 4.20
275 fms out
No fish

TEMPERATURE RECORD.

Instrument used, Baby Dodge

Current number of observation. 1115

Date, Aug 22, 1882

Locality. Off Martha's Vineyard

Bearings, Lat 39° 59' N
Long 70°-41' W

Time of day, 3.28 ; of tide,

State of sky, Vc

Temperature of air, 75

" surface of water, 72 1/2

" at depth of 5 fathoms, 72 at 10 fm 70

" of bottom, 45

Depth, in fathoms, 140 = 146

Nature of bottom, Green Mud + sand

Direction of ~~surface current~~. NE from 2

~~Force of surface current~~. NW 3/4

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of commanding officer

Lt. L. S. Lamer USN.

Name and position of observer,

[illegible]
Weather USN

1116

REMARKS.

Tyrrel 0 m 4,26 down 4,33
Tresnaf in 4,53 up 5,12
[illegible]
N 5,50 [illegible] abundant in 1116 fine
Mertucius fulmaris (few)
Lophius piscatorius
Phycis blennoides Raia clavata
Glyptocephalus cynoglossus
Pleuronectes limanda (few)
Scorpæna dactylopterus
Gadus merlangus

TEMPERATURE RECORD.

Instrument used, Brown

Current number of observation, 1116

Date, Aug 22 1882

Locality. [illegible] Matthews Bank

Bearings, Lat 39°-59' N
Long 70°-44' W

Time of day. [illegible] ; of tide.

State of sky, [illegible]

Temperature of air, 77

" surface of water, 72

" at depth of 5 fathoms, 72 10 fms 68

" of bottom, 46

Depth, in fathoms, 138 = 1[illegible]

Nature of bottom. [illegible]

Direction of ~~surface current~~. [illegible]

Force of surface current, [illegible]

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer,
Lt. T. L. Tanner USN

Name and position of observer.
[illegible]
[illegible]

1117

REMARKS.

Travel over 5,37 down 5,41
heaving in 6,08 up 6,12
240 [illegible]

Anaticlithys [illegible] gen.
Glyptocephalus [illegible] (sp.)
Muraenoides gunellus
Lebrodus maximus gen.
Trygon [illegible] (sp.)

TEMPERATURE RECORD.

Instrument used, Fowler

Current number of observation. 1117

Date, Aug 2 1882

Locality. Off Montauk Point

Bearings. Lat 40°-02' N
Long 70°-45 W

Time of day, 5 30 P.M. : of tide.

State of sky, Fog

Temperature of air, 78

" surface of water, 72

" at depth of 5 fathoms, 72 10 fms 67

" of bottom, 48

Depth, in fathoms, 85 = 89

Nature of bottom, Fine sand

Direction of surface current. [illegible] Force 3

Force of surface current. N x E 1'

Direction of bottom current.

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer.
Lt. L. L. Tanner U.S.N.

Name and position of observer,
[illegible]
Mate U.S.N.

1118

REMARKS.

Trawl over 6.25 shown 6.30
hauling in 6.35 up 6.40
2.40 fms bottom
Paralichthys oblongus (m)
Lobotes marinus (fw) Thyrsites tenuis (s)

TEMPERATURE RECORD.

Instrument used, Fowler

Current number of observation, 1118

Date, Aug 22 1882

Locality, Off Gloucester Harbor

Bearings, Lat 40°-03' N
Long 70°-45' W

Time of day, 6.20 ; of tide,

State of sky, Vc

Temperature of air, 74

" surface of water, 72

" at depth of fathoms,

" of bottom, 49

Depth, in fathoms, 67 = 70

Nature of bottom, fine sand

Direction of ~~surface current~~, Wind N Force 2

~~Force of surface current~~, drift NNW 1/2'

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer, F. L. Farnsworth USN

Name and position of observer, [illegible] Assistant USN

1119

REMARKS.

Trawl over 5,37 above bottom
Towing in 7,12 w/ 7,32
215 fms out
Left 5,22 for bottom in 6,[illegible]
large Neptunia decem costata
Cancrocaeta Americanus
Ogyrus tenuis 8) w/ [illegible] flabellidae
large Neptunia decem costata
Cancrocaeta Americanus

TEMPERATURE RECORD.

Instrument used. Forward

Current number of observation. 1119

Date. Aug 26, 1892

Locality. Off Martha's Vineyard

Bearings. Lat 40°-08' N
Long 68°-45' W

Time of day. 6.32 A.M.

State of sky, Clear

Temperature of air, 68

" surface of water, 65

" at depth of 5 fathoms, 65

" of bottom, 48

Depth, in fathoms, 93-97

Nature of bottom. Sand & broken shell

Direction of ~~surface current~~. Wind NNE Force 3

~~Force of surface current~~. Sea NE½N 3/4

Direction of bottom current.

Force of bottom current.

Name of vessel, Fish Hawk

To what service attached. U.S. Fish Commission

Name and rank of commanding officer. Lt. L. L. Farmer USN

Name and position of observer. W. Scott Midshipman USN

1120

REMARKS.

Trawl 1[illegible] 7[illegible] 8 shoot 8.03
trawling in 8.30 off 8.45
Sebastes marinus (Zoarces anguillaris)
Macrurus [illegible] (Rina [illegible])
" carinatus (pm)
Raja radiata (pm) Hyoprio [illegible] (pm)
" erinacea (pm) [illegible] (pm)
" [illegible] Nesiusius [illegible] (pm)
— deep-water starfish
Cladophyllum [illegible] and
[illegible] Fabricii (pm)
Volium [illegible] (pm)
Velamen descendens
Sipha [illegible]
[illegible] [illegible]
Sipha [illegible]
Rhizocrinus [illegible]
Ctenodiscus [illegible]
Ctenodiscus [illegible]
Hyalinoecia [illegible]
[illegible] [illegible] [illegible]
Brachiopod [illegible]
Bolocera [illegible]
Porania [illegible]
[illegible] [illegible]

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation. 1120

Date, Aug 2 [illegible]

Locality. Off Nauhaven

Bearings. Lat 40° 05 N
68° - 48' W

Time of day, 7 41 ; of tide,

State of sky, [illegible]

Temperature of air, 69

" surface of water. [illegible]

" at depth of 5 fathoms. 65 at 11 56

" of bottom, 43 1/2

Depth, in fathoms, 156 = 194

Nature of bottom, fine sand & shells

Direction of ~~surface~~ current. [illegible]

Force of ~~surface~~ current. [illegible] 1 1/2

Direction of bottom current,

Force of bottom current.

Name of vessel. Fish Hawk

To what service attached, Natl Fish Comm

Name and rank of ~~commanding officer~~ Lt. [illegible] Farwell USN

Name and position of observer. [illegible] Chief [illegible]

1121

REMARKS.

Trawl over 9.18 down 9.28
hauling in 9.48 up 10.05
550 fms out

Lebastes marinus (few) unknown (unfam)
Macrurus Bairdii Merluccius bilinearis
" carminatus
Cottunculus microps
Cyclopsis lumpus (unfam)
large lot Eschiracanthus mitrispina
Lot Bolocera tuediae
" Hyalinoecia artifex
Dolium Bairdii frag
Pecten vitreus
Urticina Calloxa
Paramuricea borealis (rare cap all
Antedon dentatum
Porania grandis (very large
Solaster Endeci
Lophaster furcifer (very rare
+ not taken in this region
before)

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1121

Date, Aug 20th 1882

Locality, Off Nantucket

Bearings, Lat 40° 04' N
Long 68° 49' W

Time of day, 9.05 ; of tide,

State of sky, Fog

Temperature of air, 65

" surface of water, 65

" at depth of 5 fathoms, 64 10 fms 56

" of bottom, 41 1/2

Depth, in fathoms, 225 = 234

Nature of bottom, fine sand & fossil shells

Direction of ~~surface current~~, Winds NNE Force 4

Force of ~~surface current~~, Drift WNW 1'

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commn

Name and rank of commanding officer, H. L. L. Tanner USN

Name and position of observer, [illegible] Midn USN

1122

REMARKS.

Trawl over 10.38 down 10.50
hauling in 11.23 off 11.45
60 fms bott

Lebastes marinus (ms) Halofox (hymis Nola (1).
Great lot Acanella Normani
with Astrochele hymani and
Pecten vitreus on Acanella

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1122

Date, Aug 26th 1882

Locality, Off Nantucket

Bearings, Lat 40°-02' N
Long 68°-50' W

Time of day, 10.28 ; of tide.

State of sky, Fog

Temperature of air, 70

" surface of water, 67

" at depth of 5 fathoms, 66 at 10 fm 60

" of bottom, 40½

Depth, in fathoms, 337 = 351.

Nature of bottom, Sand & shells

Direction of ~~surface current~~, Wind NNE Force 4

~~Force of surface current~~, Drift N W 1'

Direction of bottom current.

Force of bottom current.

Name of vessel, Fish Hawk

To what service attached, Naval Com

Name and rank of commanding officer.
Lt L. L. Lamm USN

Name and position of observer.
[illegible]
Mate USN